

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch

690 Walnut Ave. St. 150

Vallejo, CA 94592-1133

(707) 649-5453

(707) 649-5493

Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 1.28**WELDING INSPECTION REPORT****Resident Engineer:** Casey, William**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-029087**Date Inspected:** 06-Feb-2013**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1730**Contractor:** American Bridge/Fluor Enterprises, a JV**Location:** Job Site**CWI Name:** See below.**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** Tower**Summary of Items Observed:**

Quality Assurance Inspector (QA) Fritz Belford was at the American Bridge/Fluor (ABF) job site at Yerba Buena Island in California between the times noted above in order to monitor Quality Control functions and the in process work being performed by ABF personnel. The following items were observed:

Welder Chris Bruce #8901:

The welder was observed Carbon Arc Gouging (CAG) and performing the weld repairs on excavations on the Electroslag Weld "G" S-045 at face A. The indications were rejected with Ultrasonic Testing Shear Wave and were excavated at Y locations 8340 and 9500 as per Request for Weld Repairs or the RWR 201301-053 & 055. The welder was observed preheating the weld to 300 degrees Fahrenheit prior to welding using the Miller ProHeat 35 with heat induction blankets. The welder utilized the Welding Procedure Specification (WPS) ABF-WPS-D15-1000-Repair Rev.3 for Shield Metal Arc Welding (SMAW). The welding parameters were verified by QC Inspector William Sherwood throughout the day and they appeared to be in compliance with the WPS noted above.

Welder Eric Sparks #3040:

The welder was observed performing Carbon Arc Gouging (CAG) and weld repair on the Electroslag Weld "P" N-043 at face A. Rejected Ultrasonic Testing Shear Wave indications were excavated at combined Y locations 8800, 8830, 8890 and 8980 as per Request for Weld Repairs or the RWR 201301-051. The excavation was then ground to bright clean metal for Magnetic Particle Testing prior to welding. The welder was then observed preheating the weld to 300 degrees Fahrenheit prior to welding using the Miller ProHeat 35 with heat induction blankets. The welder utilized the Welding Procedure Specification (WPS) ABF-WPS-D15-1000-Repair Rev.3 for

WELDING INSPECTION REPORT

(Continued Page 2 of 3)

Shield Metal Arc Welding (SMAW). The welding parameters were verified by QC Inspector William Sherwood throughout the day and they appeared to be in compliance with the WPS noted above.

Non-Destructive Testing (NDT)

This QA performed non-destructive testing on the following:

ESW P (Face A):

- Repair Excavation at Y 8800 - 8980 (MPT Accept)

This QA Inspector completed report form TL-6028 on this date noting items acceptance or rejection as per applicable code. The completed and accepted work observed at this location appeared to be in compliance with the contract specifications.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.



ESW P (Face A):
Welder Foreman Eric Sparks #3040, performing Carbon Arc Gouging (CAG) on rejected UT indications at Y location 8800 - 8980.



ESW P (Face A):
QC Inspector William Sherwood performing Magnetic Particle Testing on weld excavation at Y location 8790 to 8980.



ESW G (Face A):
Welder Chris Bruce #8901, performing Carbon Arc Gouging (CAG) on a UT rejected indication at Y location 8340.

Summary of Conversations:

Conversations this day as required for scope of work.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Gary Thomas - (916) 764 - 6027, who represents the Office of Structural Materials

WELDING INSPECTION REPORT

(Continued Page 3 of 3)

for your project.

Inspected By: Belford,Fritz

Quality Assurance Inspector

Reviewed By: Reyes,Danny

QA Reviewer